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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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01/29/2010

SMITHKLINE BEECHAM CORPORATION CORPORATE INTELLECTUAL PROPERTY-US, UW2220 P. O. BOX 1539 KING OF PRUSSIA, PA 19406-0939 EXAMINER

AULAKH, CHARANJIT

ART UNIT

PAPER NUMBER

1625

DATE MAILED: 01/29/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,660	05/09/2006	Philip C. Dell'orco	PU60518	4972

TITLE OF INVENTION: NOVEL COMPOUND, CORRESPONDING COMPOSITONS, PREPARATION AND/OR TREATMENT METHODS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/29/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

indicated unless correct maintenance fee notifica	ted below or directed other ations.	herwise in Block 1, by (	rders and notification of r a) specifying a new corres				
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							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	04/29/2010
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
AULAKH, (	CHARANJIT	1625	514-283000				
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☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
	02 or more recent) attach		2 registered patent atto- listed, no name will be	rneys or agents. If	no nan	ie is 3	
3. ASSIGNEE NAME A	AND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or typ	pe)			
PLEASE NOTE: Un	lless an assignee is ident	tified below, no assignee	data will appear on the part of the part o	atent. If an assign	ee is i	dentified below, the de	ocument has been filed for
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Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent):	Individual 🖵 Co	orporat	on or other private gro	oup entity 🔲 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Plea	se first reapply a	ny prev	viously paid issue fee	shown above)
☐ Issue Fee			☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
			overpayment, to Depo	sit Account Numbe	er	(enclose an	n extra copy of this form).
	<b>atus</b> (from status indicate ns SMALL ENTITY stati		☐ b. Applicant is no long	ger claiming SMA	LL EN	FITY status. See 37 CF	FR 1 27(g)(2)
NOTE: The Issue Fee ar	nd Publication Fee (if req	uired) will not be accepte	ed from anyone other than t				
interest as shown by the	records of the United Sta	ites Patent and Trademark	c Office.				
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This collection of inform	nation is required by 37 C	CFR 1.311. The informati	on is required to obtain or r	etain a benefit by t	he nuh	lic which is to file (and	hv the USPTO to process)
an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V	ntiality is governed by 35 and application form to the cions for reducing this bu Virginia 22313-1450. DO	5 U.S.C. 122 and 37 CFR c USPTO. Time will vary rden, should be sent to th	1.14. This collection is est y depending upon the indiv the Chief Information Office COMPLETED FORMS TO	imated to take 12 i idual case. Any co cr. U.S. Patent and	minute mmen Trader	s to complete, including ts on the amount of tir nark Office, U.S. Depa	g gathering, preparing, and ne you require to complete artment of Commerce, P.O.
Alexandria, Virginia 223	313-1450.						

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10/578,660	05/09/2006	Philip C. Dell'orco	PU60518	4972		
20462 75	20462 7590 01/29/2010			EXAMINER		
SMITHKLINE E	BEECHAM CORPOR	AULAKH, CHARANJIT				
	ΓELLECTUAL PROPI	ART UNIT	PAPER NUMBER			
P. O. BOX 1539	IA, PA 19406-0939	1625				
KILIO OLI KOSSI	$1.7.1 \times 1.7 \times 0.0 \times 0.00$	DATE MAIL ED: 01/20/2010				

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
	10/578,660	DELL'ORCO ET AL.					
Notice of Allowability	Examiner	Art Unit					
	Charaniit S. Aulakh	1625					
	Charanjit S. Aulakh	1625					
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is supplication is supplication in the communication in the communication is supplication.	n this application. If not included unication will be mailed in due course. <b>THIS</b>					
1. X This communication is responsive to Paper filed on 12 No.	<u>vember 2009</u> .						
2. The allowed claim(s) is/are 88-116.							
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority under a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> </ul>	e been received. e been received in Application	on No					
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been receive	d in this national stage application from the					
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give							
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.							
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached							
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).							
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of In	formal Patent Application					
<ol> <li>Induce of References Cited (PTO-692)</li> <li>Induce of References Cited (PTO-</li></ol>		ummary (PTO-413),					
,	Paper No.	/Mail Date					
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>12/15/09</u></li> </ol>	7. 🛭 Examiner's	Amendment/Comment					
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's	Statement of Reasons for Allowance					
2.5.5 g.55	9. ⊠ Other <u>The</u>	drawings are accepted.					
/Charanjit S. Aulakh/							
Primary Examiner, Art Unit 1625							

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Art Unit: 1625

#### **DETAILED ACTION**

1. According to paper filed on Nov. 12, 2009, the applicants have filed a RCE; canceled claims 1-87 and furthermore, have added new claims 88-116.

2. Claims 88-116 are now pending in the application.

### EXAMINER'S AMENDMENT

3. The following editorial amendment is made in claim 92:

In claim 92, line 1, after The, insert --- topotecan ----.

## REASONS FOR ALLOWANCE

4. The following is an examiner's statement of reasons for allowance:

Claims 88-116, renumbered as claims 1-29, are allowed since the instant pentahydrate form of topotecan monohydrochloride and a process for preparing it is neither disclosed nor obvious over the prior art. In the prior art, Boehm (U.S. Patent 5,004,758, cited on applicants form 1449) discloses topotecan (see 1S camptothecin analog in tables 2 and 10). However, Boehm does not teach pentahydrate form of topotecan and furthermore, there is no teaching, suggestion or motivation in the prior art to prepare the instant pentahydrate form of topotecan.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 1625

5. The drawings are accepted.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charanjit S. Aulakh whose telephone number is (571)272-0678. The examiner can normally be reached on Monday through Friday, 8:30 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres can be reached on (571)272-0867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Charanjit S. Aulakh/ Primary Examiner, Art Unit 1625